

INTERMEDIATE (IPC) COURSE

STUDY MATERIAL

PAPER : 1

ACCOUNTING

MODULE – 2



BOARD OF STUDIES
THE INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA

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Average Due Date and Account Current

Unit 1 : Average Due Date

Learning Objectives

After studying this unit, you will be able to:

- ◆ Understand what is average due date and how to choose 0 (zero) day for calculating average due date.
- ◆ Learn the technique of calculating due date
- ◆ Learn calculation of average due date where amount is lent in various instalments.
- ◆ Calculate average due date for determining interest on drawings.
- ◆ Familiarize with the steps involved in calculation of average due date where amount is lent in one instalment but repayment is done in various instalments. Also understand days of grace and learn the technique of maturity date by counting the days of grace.

1.1 Introduction

In business enterprises, a large number of receipts and payments by and from a single party may occur at different points of time. To simplify the calculation of interest involved for such transactions, the idea of average due date has been developed. Average Due Date is one on which the net amount payable can be settled without causing loss of interest either to the borrower or the lender. In this unit, we shall elaborate the underlying principle of determining average due date covering the cases where the amount is lent in various instalments but repayment is made in a single instalment as well as where the amount is lent in one instalment but repayment is made by various instalments. The technique of average due date is also useful for calculating interest on drawings made by the proprietors or partners of a business firm at several points of time.

1.2 Due Date

The due date of a bill of exchange/invoice is the date when the amount of a bill/invoice is payable by the drawee/ creditor to drawer/ debtor.

7.2 Accounting

1.2.1 Calculation of Due Date after Taking into Consideration Days of Grace: A Bill of exchange or promissory note matures on the date on which it falls due. And every promissory note or bill of exchange (other than those payable on demand or at sight or on presentment) falls due on the **third day** after on which it is expressed to be payable.

Examples

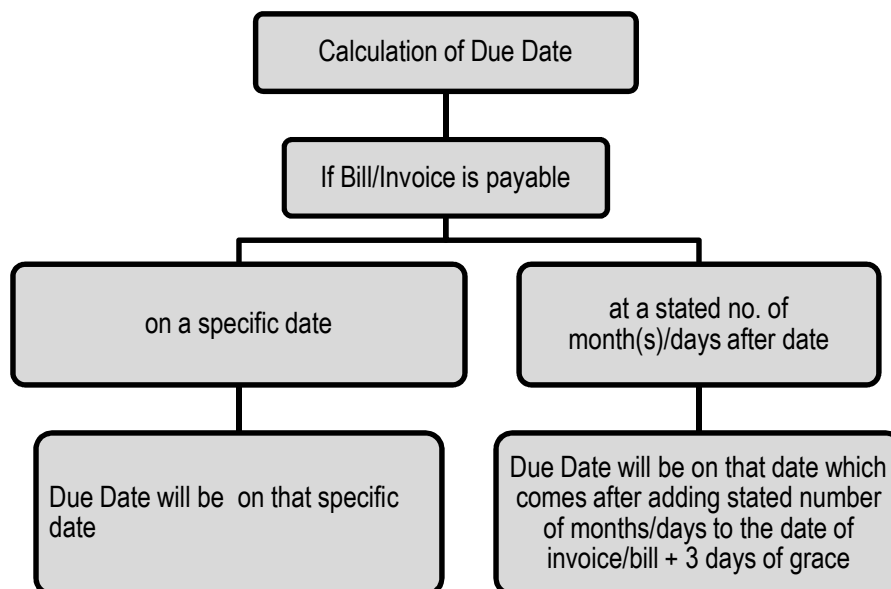
- (i) A bill dated 30th September is made payable three months after date. It falls due on 2nd January.
- (ii) A note dated 1st January is payable one month after sight. It falls due on 4th February.



1.2.2 Calculating Due Date of Bill or Note Payable Few Months after Date or Sight

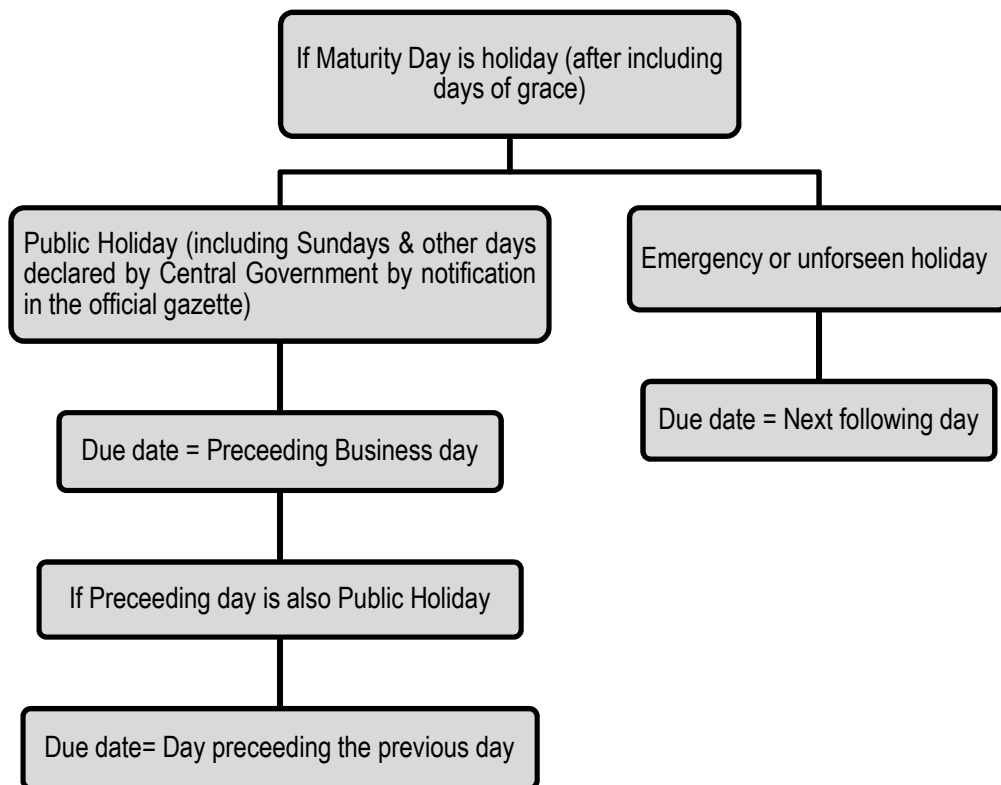
When the bill is made payable at a stated number of months after date or after sight or after certain events, then the period stated shall be held to terminate on the date of the month which corresponds with the day on which the instrument is dated. If the month in which the period would terminate has no corresponding day, the period shall be held to terminate on the last day of such month.

Example: A Bill due on 29th January, 2011 is made payable at one month after date. The due date of instrument is 3rd day after 28th February, i.e., 3rd March (in 2011, February is of 28 days only).



1.2.3 Calculation of Due Date when the Maturity Day is a Holiday

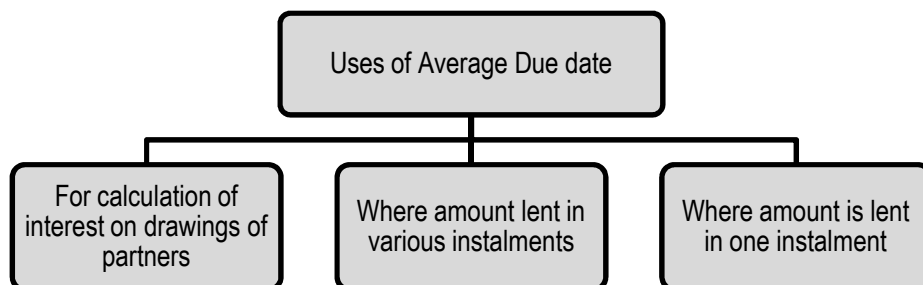
When the day on which a promissory note or bill of exchange is at maturity (after including days of grace) is a public holiday, the instrument shall be deemed to be due on the preceding business day. The expression “public holiday” includes Sundays and other days declared by the Central Government by notification in the official gazette, to be a public holiday. And now if the preceding day is also a public holiday, it will fall on the day preceding the previous day. But if the holiday happens to be emergency or unforeseen holiday then the date shall be the next following day.



1.3 Types of Problems

There are two types of problems:

- (1) Calculation of equated date when amount is lent in various instalments and repayment is made in one instalment.
- (2) Calculation of equated date when amount is lent in one instalment and repayment is made in various instalments.



1.3.1 Case 1. Where amount is lent in various instalments

Calculation of average due date: Under this type of problem, average due date is calculated as follows :

- Take the earliest due date as starting day or base date or "O" day for convenience. Any date whatsoever, may also be taken as "O" day.
- Consider the number of days from base date up to each due date. Calculations may also be made in month.
- Multiply the number of days by the corresponding amounts.
- Add up the amount and products.
- Divide the "Product total" by "Amount total" and get result approximately upto a whole number.
- This number is added in the base date to find the average due date.

Thus the formula for the average due date can be under.

$$\text{Average due date} = \text{Base date} \pm \frac{\text{Total of products}}{\text{Total amounts}}$$

Note: For calculation of no. of days, no. of days in each respective month involved are to be considered individually.

Illustration 1

The followings are the amounts due on different dates in between the same parties:

Amount ₹	Due Date
500	3rd July
800	2nd August
1,000	11th September

Suggest a date on which all the bills may be paid out without any loss of interest to either party.

Solution

Considering 3rd July as the starting day the following table is prepared:

<i>Due Dates</i>	<i>Amount</i>	<i>No. of Days from 3rd July</i>	<i>Products</i>
3rd July	500	0	0
2nd August	800	30	24,000
11th September	<u>1,000</u>	70	<u>70,000</u>
	<u>2,300</u>		<u>94,000</u>

$$\text{Average Due Date} = 3\text{rd July} + \frac{94,000}{2,300}$$

$$= 3\text{rd July} + 41 \text{ days} = 13\text{th August}$$

Assuming 5% is interest rate, the debtor loses interest due to early payment of ₹ 1,000 for 29 days (from 13th August to 11th September) i.e., ₹ 4. He however, gains interest, due to late payment on ₹ 500 for 41 days from 3rd July to 13th August and on ₹ 800 for 11 days i.e. ₹ 2.80 + ₹ 1.20, i.e., ₹ 4. Thus the debtor neither loses nor gains by payment of all the amounts on 13th August.

It should be noted that in calculating the number of days only one of the dates, either the starting date or the due date is to be counted.

In the same fashion bill due to one party may be cancelled as against bills of same amount due from the same party after adjustment of interest for the period elapsing between the two average due dates. Instead of payment of several bills on the same date as above, other bill starting from the average due date for agreed period together with interest for the period may be accepted.

Illustration 2

Two traders X and Y buy goods from one another, each allowing the other one month's credit. At the end of 3 months the accounts rendered are as follows:

	<i>Goods sold by X to Y</i>		<i>Goods sold by Y to X</i>
	₹		₹
April 18	60.00	April 23	52.00
May 15	70.00	May 24	50.00
June 16	80.00		

Calculate the date upon which the balance should be paid so that no interest is due either to X or Y.

7.6 Accounting

Solution

Taking May 18th as the zero or base date:

For Y's payments:

<i>Date of Transactions</i>	<i>Due Date</i>	<i>Amount</i>	<i>No. of days from the base date</i>	<i>Products</i>
(1)	(2)	(3)	(4)	(5)
April 18	May 18	60	0	0
May 15	June 15	70	28	1,960
June 16	July 16	<u>80</u>	59	<u>4,720</u>
Amount Due to X		<u>210</u>	Sum of products	<u>6,680</u>

For X's payments

The students should note that the same base date should be taken. Therefore, the base date will be May 18th in this case also.

<i>Date of Transactions</i>	<i>Due Date</i>	<i>Amount</i>	<i>No. of days from the base date</i>	<i>Products</i>
(1)	(2)	(3)	(4)	(5)
April 23	May 23	52	5	260
May 24	June 24	<u>50</u>	37	<u>1,850</u>
Amount Due to Y		<u>102</u>	Total products	<u>2,110</u>

Excess of Y's products over X's = 6,680 – 2,110

= 4,570

Excess amount due to X ₹ 210 – 102 = ₹ 108.

Number of days from the base date to the date of settlement is

$$\frac{4,570}{108} = 42 \text{ days}$$

Hence the date of settlement of the balance is 42 days after May 18 i.e., on June 29. On June 29, Y has to pay X, ₹ 108 to clear the account.

Calculation of interest on drawings

In the case of drawings also, amount is drawn by the owners of business on various dates but it may be settled on one day. It should be noted that, when different amounts are due on different dates, but they are ultimately settled on one day the interest may be calculated by means of Average Due Date. When interest is chargeable on drawings, and drawings are on different

dates, interest may be calculated on the basis of Average Due Date of drawings determined on the basis given above. An illustration is given below to help in understanding the same:

Illustration 3

A and B, two partners of a firm, have drawn the following amounts from the firm in the year ending 31st March, 2015:

Date	A	Date	B
	₹		₹
1 st July	500	12 th June	1,000
30 th September	800	11 th August	500
1 st November	1,000	9 th February	400
28 th February	400	7 th March	900

Interest at 6% p.a. is charged on all drawings. Calculate interest chargeable by using (i) ordinary system (ii) Average due date system. (assume 1 year = 365 days)

Solution

(i)	Ordinary System :		
A	500 for 9 months	=	4,500 for 1 month
	800 for 6 months	=	4,800 for 1 month
	1,000 for 5 months	=	5,000 for 1 month
	400 for 1 month	=	400 for 1 month
			<u>14,700 for 1 month</u>
	14,700 @ 6% for 1 month	=	1/2% of 14,700
		=	₹ 73.50
B	1,000 for 292 days	=	2,92,000
	500 for 232 days	=	1,16,000
	400 for 50 days	=	20,000
	900 for 24 days	=	21,600
			<u>4,49,600</u>

$$4,49,600 \times \frac{6}{100} \times \frac{1}{365} = ₹ 73.91$$

(ii) Average Due Date System:

(a) Taking 1st July as the base date (O-day)

	Dates	₹	Days from O-day	Products
	1 st July	500	0	0
	30 th September	800	3	2,400
A	1 st November	1,000	4	4,000

7.8 Accounting

	28 th February	<u>400</u>	8	<u>3,200</u>
		<u>2,700</u>		<u>9,600</u>

Average Due Date = $\frac{9,600}{2,700}$ months from 1st July. i.e., 3.556 months i.e. October 17th.

Interest is chargeable from October 17 to March 31 i.e. 5.444 months

$$2,700 \times \frac{6}{100} \times \frac{5.444}{12} = ₹ 73.49$$

Or,

Taking 1st April as the base date (O-day):

	Dates	₹	Months from O-day	Products
A	1st July	500	3	1,500
	30th September	800	6	4,800
	1st November	1,000	7	7,000
	28th February	<u>400</u>	11	<u>4,400</u>
		<u>2,700</u>		<u>17,700</u>

Average Due Date = $\frac{17,700}{2,700}$ months from 1st April. i.e. 6.556 months i.e.

17th October.

Interest is chargeable from October 17 to March 31 i.e. 5.444 months.

$$2,700 \times \frac{6}{100} \times \frac{5.444}{12} = ₹ 73.49$$

(b) Taking 12th June as the base date (Zero-day)

	Dates	₹	Days from O-day	Products
B :	12 th June	1,000	0	0
	11 th August	500	60	30,000
	9 th February	400	242	96,800
	7 th March	<u>900</u>	268	<u>2,41,200</u>
		<u>2,800</u>		<u>3,68,000</u>

Average Due Date = $\frac{3,68,000}{2,800}$ days from 12th June . i.e. 131 days.

June 18

July 31

Aug. 31
Sept. 30
 110

131 days - 110 days i.e. 21st October

So, interest is chargeable from 21st October to 31st March i.e. for 161 days.

$$2,800 \times \frac{6}{100} \times \frac{161}{365} = ₹ 74.10$$

The Differences in amounts in the two systems (1) and (2) are due to approximation.

Illustration 4

The following amounts are due to X by Y. Y wants to pay off (a) on 18th March or (b) on 14th July. Interest rate of 8% p.a. is taken into consideration.

Due Dates	₹
10 th January	500
26 th January (Republic Day)	1,000
23 rd March	3,000
18 th August (Sunday)	4,000

Determine the amount to be paid in (a) and in (b).

Solution

Taking 10th January as the base date

Due Date (Normal)	Due Date (Actual)	No. of days from 10 th January. . .	Amount ₹	Product
10 th January	10 th January	0	500	0
26 th January	25 th January	15	1,000	15,000
23 rd March	23 rd March	72	3,000	2,16,000
18 th August	17 th August	219	<u>4,000</u>	<u>8,76,000</u>
			<u>8,500</u>	<u>11,07,000</u>

$$\text{Average Due Date} = 10\text{th Jan.} + \frac{11,07,000}{8,500} = 10\text{th Jan} + 130 \text{ days} = 20\text{th May}$$

January	21
February	28

7.10 Accounting

March	31
April	<u>30</u>
	<u>110</u>

- (a) If the payment is made on 18th March rebate will be allowed for unexpired time from 18th March to 20th May i.e., 13 + 30 + 20 i.e. for 63 days. He has to pay the discounted value of the total amount.

$$\text{Discount} = 8,500 \times \frac{8}{100} \times \frac{63}{365} = 680 \times \frac{63}{365} = ₹ 117.37$$

Amount to be paid on 18th March = ₹ (8,500 – 117.37) = ₹ 8,382.63

- (b) If the payment is deferred to 14th July, interest is to be paid from 20th May to 14th July i.e., for 11 + 30 + 14 = 55 days.

$$\text{Interest} = 8,500 \times \frac{8}{100} \times \frac{55}{365} = 680 \times \frac{55}{365} = ₹ 102.47$$

The amount to be paid on 14th July.

$$₹ 8,500 + 102.47 = ₹ 8,602.47$$

Illustration 5

Manoj had the following bills receivables and bills payable against Sohan. Calculate the average due date, when the payment can be received or made without any loss of interest.

Date	Bills Receivable	Tenure	Date	Bills Payable	Tenure
	₹			₹	
01/06/2014	3,000	3 month	29/05/2014	2,000	2 month
05/06/2014	2,500	3 month	03/06/2014	3,000	3 month
09/06/2014	6,000	1 month	9/06/2014	6,000	1 month
12/06/2014	1,000	2 month			
20/06/2014	1,500	3 month			

15 August, 2014 was a Public holiday. However, 6 September, 2014 was also declared as sudden holiday.

Solution:

Let us take 12.07.2014 as Base date.

Bills receivable

Due date	No. of days from 12.07.2014	Amount	Product
04/09/2014	54	3,000	1,62,000

08/09/2014	58	2,500	1,45,000
12/07/2014	0	6,000	0
14/08/2014	33	1,000	33,000
23/09/2014	73	<u>1,500</u>	<u>1,09,500</u>
		<u>14,000</u>	<u>4,49,500</u>

Bills payable

<i>Due date</i>	<i>No. of days from 12.07.2014</i>	<i>Amount</i>	<i>Product</i>
01/08/2014	20	2,000	40,000
07/09/2014	57	3,000	1,71,000
12/07/2014	0	<u>6,000</u>	<u>0</u>
		<u>11,000</u>	<u>2,11,000</u>

Excess of products of bills receivable over bills payable = 4,49,500 - 2,11,000 = 2,38,500

Excess of bills receivable over bills payable = 14,000 – 11,000 = 3,000

Number of days from the base date to the date of settlement is $2,38,500/3,000 = 79.5$ (approx.)

Hence date of settlement of the balance amount is 80 days after 12th July i.e. 30th September.

On 30th September, 2014 Sohan has to pay Manoj ₹ 3,000 to settle the account.

1.3.2 Case 2: Where amount is lent in one Instalment

Calculation of average due date in a case where the amount is lent in one instalment and repayment is done in various instalments (opposite to what we have done in the first case). The problem takes a different shape. The procedure for calculating average due date can be summarised as under:

Step 1: Calculate number of days/monthly/years from the date of lending money to the date of each repayment.

Step 2: Find the total of such days/months/years.

Step 3: Quotient will be the number of days/months/years by which average due date falls away from date of commencement of loan.

Thus, the formula for the average due date can be written as under:

$$\text{Average due date} = \text{Date of Loan} + \frac{\text{Sum of days/months/Years from the date of lending to the date of repayment of each instalment}}{\text{Number of instalments}}$$

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Illustration 6

₹ 10,000 lent by Dass Bros. to Kumar & Sons on 1st January, 2008 is repayable in 5 equal annual instalments commencing on 1st January, 2009. Find the average due date and calculate interest at 5% per annum, which Dass Bros. will recover from Kumar & Sons.

Solution

$$\begin{aligned} & \text{Sum of the number of years/ months/ days from} \\ & \text{the date of lending to the date of repayment of each} \\ & \text{instalment} \\ \text{Average due date} &= \text{Date of Loan} + \frac{\text{Sum of the number of years/ months/ days from the date of lending to the date of repayment of each instalment}}{\text{Number of instalments}} \\ &= \text{Jan. 1, 2008} + \frac{1+2+3+4+5}{5} \\ &= \text{Jan. 1, 2008} + 3 \text{ years} \\ &= 1\text{st Jan., 2011} \end{aligned}$$

Interest at a certain rate on the instalments paid from the date of payment to any fixed date will be the same as on ₹ 10,000 (if lent on 1st Jan., 2011 to that fixed date). There will be no loss to either party. Supposing rate of interest is 5% p.a. and date of settlement is 31st Dec., 2009 then calculation of interest by product method from both parties' point of view will be as follows:

Dass Bros. pays interest as follows:

Amount	Paid on	Money used by Dass Bros upto 31 st Dec. 2013	Product
₹			₹
2,000	1st Jan. 2009	5 Years	10,000
2,000	1st Jan. 2010	4 Years	8,000
2,000	1st Jan. 2011	3 Years	6,000
2,000	1st Jan. 2012	2 Years	4,000
2,000	1st Jan. 2013	1 Year	<u>2,000</u>
			<u>30,000</u>

$$\text{Interest at 5\% p.a. on ₹ 30,000 for one year.} = \frac{₹ 30,000 \times 5}{100} = ₹ 1,500$$

$$\begin{aligned} & \text{Dass Bros. will receive interest (if given on 1st Jan., 2011 on ₹ 10,000 from average due date} \\ & \text{to 31st Dec., 2013, i.e., for 3 years at 5\% p.a.} = \frac{5 \times 3 \times ₹ 10,000}{100} = ₹ 1,500 \end{aligned}$$

From the above, it can be concluded that if the borrower pays ₹ 2,000 yearly from 1st Jan., 2009 for 5 years and if the lender gives ₹ 10,000 on 1st Jan., 2011 then both will charge same interest from each other. There is no loss to any of the parties. But actually lender gives ₹ 10,000 on 1st Jan., 2008, therefore, he has given loan 3 years in advance and will charge interest on ₹ 10,000 for 3 years.

$$\text{Interest} = \frac{\text{₹}10,000 \times 5 \times 3}{100} = \text{₹} 1,500 \text{ (to be charged by Dass Bros.)}$$

Illustration 7

A trader having accepted the following several bills falling due on different dates, now desires to have these bills cancelled and to accept a new bill for the whole amount payable on the average due date :

Sl. No.	Date of bill	Amount	Usance of the bill
1	1st March 2014	400	2 months
2	10th March 2014	300	3 months
3	5th April 2014	200	2 months
4	20th April 2014	375	1 month
5	10th May 2014	500	2 months

You are required to find the said average due date.

Solution

Calculation of the average due date

Taking 4th May as the base date

Sl. No.	Date of bill	Due Date of Maturity	Amount ₹	No. of days from starting date (4 th May)	Product
1	1st March 2014	4th May	400	0	0
2	10th March 2014	13th June	300	40	12,000
3	5th April 2014	8th June	200	35	7,000
4	20th April 2014	23rd May	375	19	7,125
5	10th May 2014	13th July	<u>500</u>	70	<u>35,000</u>
Total :			<u>1,775</u>		<u>61,125</u>

Average Due Date is 61,125/1,775 i.e., 34 days after the assumed due date, 4th May, 2014. The new bill should be for ₹ 1,775 payable on June 7th, 2014.

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Illustration 8

A owes B ₹ 890 on 1st January, 2015. From January to March, the following further transactions took place between A and B:

January 16	A buys goods	₹ 910
February 2	A receives Cash loan	₹ 750
March 6	A buys goods	₹ 810

A pays the whole amount on 31st March, 2015 together with interest at 5% per annum. Calculate the interest by the average due date method.

Due Date	Amount	No. of days from Jan. 1	Product
2015	₹		
Jan. 1	890	0	0
Jan. 16	910	15	13,650
Feb. 2	750	32	24,000
March 6	<u>810</u>	64	<u>51,840</u>
	<u>3,360</u>		<u>89,490</u>

Solution

Calculation of average due date

Average due date = Base date + days equal to $\frac{\text{Sum of Products}}{\text{Sum of the amounts}}$

Jan. 1 + $\left[\frac{89,490}{3,360} \right]$ i.e., 27 days or Jan. 28

Interest therefore has been calculated on ₹ 3,360 from 28th Jan. to 31st March, i.e., for 63 days.

$$3,360 \times \frac{5}{100} \times \frac{63}{365} = ₹ 29$$

Illustration 9

Radheshyam purchased goods from Hariram. The due dates for payment is cash, being as follows:

March 15	₹ 400 Due on 18th April
April 21	₹ 300 Due on 24th May
April 27	₹ 200 Due on 30th June

May 15

₹ 250 Due on 18th July

Hariram agreed to draw a Bill for the total amount due on the average due date. Ascertain that date.

Solution**Taking 18th April as the base date**

Due Date	Amount	No. of days	Product
	₹	from 18th April	
18th April	400	0	
24th May	300	36	10,800
30th June	200	73	14,600
18th July	<u>250</u>	91	<u>22,750</u>
	<u>1,150</u>		<u>48,150</u>

Average Due Date is $\frac{48,150}{1,150}$ or 42 days after the base date.

18th April, i.e. 30 May.

Illustration 10

Calculate Average Due date from the following information:

Date of the bill	Term	Amount
		₹
August 10, 2013	3 months	6,000
October 23, 2013	60 days	5,000
December 4, 2013	2 months	4,000
January 14, 2014	60 days	2,000
March 08, 2014	2 months	3,000

(Assume February of 28 days)

Solution

Calculation of Average Due Date
Taking 10th August as the base date

Date of bill	Term	Due date	No. of days from 10 th August 2013	Amount ₹	Product ₹
August 10, 2013	3 months	Nov. 13, 2013	95	6,000	5,70,000
October 23, 2013	60 days	Dec. 25, 2013	137	5,000	6,85,000

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December 04, 2013	2 months	Feb. 07, 2014	181	4,000	7,24,000
January 14, 2014	60 days	Mar. 18, 2014	220	2,000	4,40,000
March 08, 2014	2 months	May 11, 2014	274	<u>3,000</u>	<u>8,22,000</u>
				<u>20,000</u>	<u>32,41,000</u>

$$\text{Average due date} = \frac{\text{Total of product}}{\text{Total of amount}} = \frac{32,41,000}{20,000} = 162 \text{ days}$$

= 162 days after August 10, 2013 i.e. January 19, 2014.

Illustration 11

Mr. Green and Mr. Red had the following mutual dealings and desire to settle their account on the average due date:

Purchases by Green from Red:	₹
6 th January, 2015	6,000
2 nd February, 2015	2,800
31 st March, 2015	2,000

Sales by Green to Red:

6 th January, 2015	6,600
9 th March, 2015	2,400
20 th March, 2015	500

You are asked to ascertain the average due date.

Solution

Calculation of Average Due Date

Taking 6th January, 2015 as base date

For Green's payments

Due date	Amount	No. of days from the base date i.e. 6 th Jan. 2015	Product
2015	₹		
6 th January	6,000	0	0
2 nd February	2,800	27	75,600
31 st March	<u>2,000</u>	84	<u>1,68,000</u>
Total	<u>10,800</u>		<u>2,43,600</u>
For Red's payment 2015			

6 th January	6,600	0	0
9 th March	2,400	62	1,48,800
20 th March	<u>500</u>	73	<u>36,500</u>
Total	<u>9,500</u>		<u>1,85,300</u>

Excess of Green's products over Red's = ₹ 2,43,600 – ₹ 1,85,300 = ₹ 58,300

= ₹ 10,800 – ₹ 9,500 = ₹ 1,300

Number of days from the base date to the date of settlement is $58,300/1,300=45$ days (approx.)

Hence, the date of settlement of the balance amount is 45 days after 6th January i.e. on 20th February.

On 20th February, 2015, Green has to pay Red ₹ 1,300 to settle the account.

Summary

- Average Due Date is one on which the net amount payable can be settled without causing loss of interest either to the borrower or the lender.
- It is used in various cases like:
 - (i) Calculation of interest on drawings of partners.
 - (ii) Cancellation of various bills of exchange due on different dates and issuance of a Single bill.
 - (iii) Amount lent in one instalment and repayable in various instalments.
- When the amount is lent in various instalments then average due date can be calculated as :

$$\text{Average due date} = \text{Base date} \pm \frac{\text{Total}[\text{Amount} \times \text{No. of days from base date to due date}]}{\text{Total amounts}}$$

- When interest is chargeable on drawings, and drawings are on different dates, interest may be calculated on the basis of Average Due Date of drawings.
- Average due date in a case where the amount is lent in one instalment and repayment is done in various instalments will be:

$$\text{Average due date} = \text{Date of Loan} + \frac{\text{Sum of days/months/years from the date of lending to the date of repayment of each instalments}}{\text{Total amounts}}$$

- Every promissory note or bill of exchange (other than those payable on demand or at sight or on presentment) falls due on the third day after on which it is expressed to be payable. This exempted period of three days is called days of grace.
- When due date is a public holiday, then the preceding business day will be the due date.
- When due date is an emergency/ unforeseen holiday, then the next following day will be the due date.

Unit 2 : Account Current

Learning Objectives

After studying this unit, you will be able to:

- ◆ Understand the meaning of Account Current.
- ◆ Learn the methods of preparing Account Current, namely preparation of Account Current with the help of interest tables, by means of product and by means of balances.
- ◆ Grasp the calculation procedure involved in the preparation of Account Current.

2.1 Introduction

An Account Current is a running statement of transactions between parties for a given period of time and includes interest allowed or charged on various items. It takes the form of an ledger account.

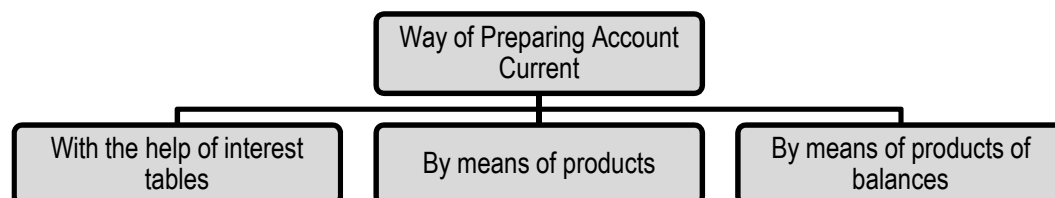
Some of the situations when account current is prepared are:

1. It is prepared when frequent transactions regularly take place between two parties. An example is of a manufacturer who sells goods frequently to a merchant on credit and receives payments from him in instalments at different intervals and charges interest on the amount which remains outstanding.
2. A consignee of goods can also prepare an Account Current, if the latter is to settle the account at the end of the consignment & interest is chargeable on outstanding balance.
3. An Account Current also is frequently prepared to set out the transactions taking place between a banker and his customer.
4. It is prepared when two or more persons are in joint venture and each co-venture is entitled to interest on their investment. Also, no separate set of book is maintained for it.

An Account Current has two parties - one who renders the account and the other to whom the account is rendered. This is indicated in the heading of an Account Current, which is like the following: "A in Account Current with B". It implies that A is the customer, and the account is being rendered to him by B.

2.2 Preparation of Account Current

There are three ways of preparing an Account Current:



2.2.1 Preparation of Account Current with the help of Interest Tables

According to this method, all the transactions are arranged in the form of an account. There are two additional columns on both the sides of such an account.

- (a) One column is meant to indicate the number of days counted from the due date of each transaction to the date of rendering the account. If no specific date is mentioned as the date on which payment is due, the date of the transactions is presumed to be the due date.
- (b) The other column is meant for writing interest.

With the help of ready made tables, interest due on different amounts at given rates for different periods of time is found out and this is entered against each item separately.

The interest columns of both the sides are totalled up and the balance is drawn.

Illustration 1

Prepare Account Current for Nath Brothers in respect of the following transactions with Shyam:

2013		₹	
September 16	Goods sold to Shyam	200	due 1st Oct.
October 1	Cash received from Shyam	90	
October 21	Good purchased from Shyam	500	due 1st Dec.
November 1	Paid to Shyam	330	
December 1	Paid to Shyam	330	
December 5	Goods purchased from Shyam	500	due 1st Jan.
December 10	Goods purchased from Shyam	200	due 1st Jan.
2014			
January 1	Paid to Shyam	600	
January 9	Goods sold to Shyam	20	due 1st Feb.

The account is to be prepared upto 1st February. Calculate interest @ 6% per annum. (1 year = 365 days)

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Solution

Shyam in Account Current with Nath Brothers (Interest to 1st February, 2014 @ 6% p.a.)

Date	Particulars	Due	Amount	Days	Interest	Date	Particulars	Due	Amount	Days	Interest
2013		date	₹			2013		date	₹		
Sept. 16	To Sales A/c	1 st Oct.	200	123	4.04	Oct. 1	By Cash A/c	1 st Oct.	90	123	1.82
Nov. 1	To Cash A/c	1 st Nov.	330	92	5.00	Oct. 21	By Purchase A/c	1 st Dec.	500	62	5.10
Dec. 1	To Cash A/c	1 st Dec.	330	62	3.36	Dec. 5	By Purchase A/c	1 st Jan.	500	31	2.55
						Dec. 10	By Purchase A/c	1 st Jan.	200	31	1.02
2014						2014					
Jan. 1	To Cash A/c	1 st Jan.	600	31	3.06	Feb. 1	By Balance of Interest				4.97
Jan. 9	To sales A/c	1 st Feb.	20			Feb. 1	By Balance c/d		194.97		-
Feb. 1	To Interest		4.97								
			<u>1,484.97</u>		<u>15.46</u>				<u>1,484.97</u>		<u>15.46</u>

Tutorial Notes:

- (1) While counting the number of days, the date of due date is ignored and the date upto which the account is prepared, is included.
- (2) While counting the number of days, for opening balances, the opening date as well as date upto which the account is prepared, is counted.

Calculation of days:

Transaction 2013	Due Date	Oct.	Nov.	Dec.	Jan.	Feb.	Total Days
16 th Sept.	1 st Oct.	30+	30+	31+	31+	1 =	123
1 st Oct.	1 st Oct.	30+	30+	31+	31+	1 =	123
21 st Oct.	1 st Dec.	-	-	30+	31+	1 =	62
1 st Nov.	1 st Nov.	-	29+	31+	31+	1 =	92
1 st Dec.	1 st Dec.	-	-	30+	31+	1 =	62
5 th Dec.	1 st Jan.	-	-	-	30+	1 =	31
10 th Dec.	1 st Jan.	-	-	-	30+	1 =	31

2014							
1 st Jan.	1 st Feb.	-	-	-	30+	1 =	31
9 th Jan.	1 st Feb.	-	-	-	-	- =	0

2.2.2 Preparation of Account Current by means of Products

When this method is followed, the way of preparing the Account Current remains the same. In this method is only the method of calculating interest is different.

Under the previous method, interest columns are provided on both the sides of the Account Current, and interest in respect of each item is found out from the ready-made interest tables. In this method, interest columns are replaced by "product" columns. Product in this case is the amount multiplied by the number of days for which it has been outstanding. Interest on a certain sum of money for a certain number of days is the same thing as interest on the product for one day. In other words, with a view to reduce the period of each transaction to one day, the amount of each transaction is multiplied by the number of days. This product is entered against each transaction the product column.

The remaining steps are as follows:

- Find out the balance of the products on the two sides.
- Calculate interest at the given rate on the balance of the products for a single day.
- Enter interest on the appropriate side in the amount column. This entry is made on the side other than that on which the balance of products appears.

Taking Illustration 1 Account Current by means of Product is explained below :

Shyam in Account Current with Nath Brothers

(Interest to 1st February, 2014 @ 6% p.a.)

Date	Particulars	Due	Amount	Days	Product	Date	Particulars	Due	Amount	Days	Product
2013		date	₹	₹	₹	2013		date	₹	₹	₹
Sept. 16	To Sales A/c	1st Oct	200	123	24,600	Oct. 1	By Cash A/c	Oct.1	90	123	11,070
1 Nov.	To Cash A/c	1st Nov	330	92	30,360	Oct.21	By Purchase A/c	Dec. 1	500	62	31,000
1 Dec.	To Cash A/c	1st Dec	330	62	20,460	Dec.5	By Purchase A/c	Jan. 1	500	31	15,500
						Dec.10	By Purchase A/c	1 Jan	200	31	6,200
2014						2014					
Jan.1	To Cash A/c	1 Jan	600	31	18,600	Feb.1	By Balance of products				30,250
Jan.9	To Sales A/c	1 Feb	20			Feb.1	By Balance c/d		194.97		
Feb.1	To Interest		4.97								

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	$\frac{30,250}{365} \times \frac{6}{100}$								
		1,484.97		94,020			1,484.97		94,020
2014									
Feb	To Balance b/d	194.97							

2.2.3 Method of Computing the numbers of Days

Usually any of the following two methods is used for calculating the number of days.

1. Forward Method- Under this method the number of days are calculated from the due date of the transaction to the date of closing the account.
2. Backward (or Epoque Method)- Under this method, the number of the days are calculated from the opening date of statement to the due date of transaction.

Example

From the following particulars, make up an Account Current to be rendered by Mr. X to Mr. Y on 31st December, 2014 taking interest into account at the rate of 18% p.a.

01.07. 2014	Balance owing by Mr. Y	₹ 600
30.07. 2014	Goods sold to Mr. Y (Credit Period allowed 1 month)	₹ 300
01.08. 2014	Good purchased from Mr. Y (Credit Period received 1 month)	₹ 200
01.09. 2014	Cash received from Mr. Y	₹ 100
01.09. 2014	Mr. Y accepted Mr. X's Draft at 3 Months date	₹ 400

You are required to prepare the Account Current according to interest on individual transaction under the Forward and Backward methods.

Solution**(a) Product of individual Transaction Method (Forward Method)****Mr. Y in Account Current with Mr. X (interest to 31st Dec. 2014 @ 18% p.a.)**

Date	Particulars	Due date	Am ₹	Days	Product ₹	Date	Particulars	Due date	Amt. ₹	Days	Product ₹
01.07.2014	To Balance b/d		600	184	1,10,400	01.08.2014	By Purchase A/c	Sep. 1	200	121	24,200
30.07.2014	To Sales A/c	Aug 30	300	123	36,900	01.09.2014	By Cash A/c	Sep. 1	100	121	12,100
31.12.2014	To Interest on Balance for 1 day @ 18%		49			01.09.2014	By B/R A/c	Dec. 4	400	27	10,800
	$\left[\frac{1,00,200 \times 18 \times 1}{100 \times 365} \right]$					31.12.2013	By Balance of Products				1,00,200
			949		1,47,300	31.12.2013	By Balance c/d		249		
									949		1,47,300

(b) Product of individual Transaction Method (Epoque Method)

Mr. Y in Account Current with Mr. X (interest to 31st Dec. 2014 @ 18% p.a.)

Date	Particulars	Due date	Amt. ₹	Days	Product ₹	Date	Particulars	Due date	Amt. ₹	Days	Product ₹
01.07.2014	To Balance b/d		600			01.08.2014	By Purchase A/c	Sep. 1	200	63	12,600
30.07.2014	To Sales A/c	Aug 30	300	61	18,300	01.09.2014	By Cash A/c	Sep. 1	100	63	6,300
31.12.2014	To Balance of Product				1,00,200	01.09.2014	By B/R A/c	Dec. 4	400	157	62,800
31.12.2014	To Interest on Balance for 1 day @ 18% $\left[\frac{1,00,200 \times 18 \times 1}{100 \times 365} \right]$		49			31.12.2014	By Balance of Products [200 x 184]				36,800
			949	-	1,18,500	31.12.2014	By Balance c/d		249		
									949		1,18,500

Illustration 2

From the following particulars prepare the account current to be rendered by Mr. Singh to Mr. Paul as on 31st August, 2014. Interest must be calculated @ 10% p.a. (1 year = 365 days)

2014		₹
June 11	Goods sent to Mr. Paul	1,020
June 15	Cash received from Mr. Paul	500
June 20	Goods sent to Mr. Paul	650
July 7	Goods sent to Mr. Paul	700
Aug 8	Cash received from Mr. Paul	1,100

Solution

Mr. Paul in Account Current with Mr. Singh
(Interest to 31st August, 2014 @ 10% p.a.)

Dr.											Cr.
Date	Particulars	Due	Amount	Days	Product	Date	Particulars	Due	Amount	Days	Product
2014		Date	₹			2014		Date	₹		
June 11	To Sales A/c	June 11	1,020	81	82,620	June 15	By Cash A/c	June 15	500	77	38,500
June 20	To Sales A/c	June 20	650	72	46,800	Aug.8	By Cash A/c	Aug.8	1,100	23	25,300
July 7	To Sales A/c	July 7	700	55	38,500	Aug.31	By Balance of product				1,04,120
Aug.31	To Interest A/c		28.53			Aug. 31	Balance c/d		798.53		
	$\frac{1,04,120}{365} \times \frac{10}{100}$										
			<u>2,398.53</u>		<u>1,67,920</u>				<u>2,398.53</u>		<u>1,67,920</u>
Sept.	To Balance b/d		798.53								

Illustration 3

From the following particulars make up an Account Current to be rendered by S. Dasgupta to A. Halder at 31st Dec. reckoning interest at 5% p.a. (assume 1 year = 365 days)

2014		₹
June 30	Balance owing by A. Halder	520
July 17	Goods sold to A. Halder	40
Aug. 1	Cash received from A. Halder	500

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Aug. 19	Goods sold to A. Halder	720
Aug. 30	Goods sold to A. Halder	50
Sept. 1	Cash received from A. Halder	400
Sept. 1	A. Halder accepted Dasgupta's Bill at 3 month date for	300
Oct. 22	Goods bought from A. Halder	20
Nov. 12	Goods sold to A. Halder	14
Dec. 14	Cash received from A. Halder	50

Solution

A. Halder in Current Account with Mr. S. Dasgupta (Interest to 31st December, 2014 @ 5% p.a.)

Date	Particulars	Due	Amount	Days	Product	Date	Particulars	Due	Amount	Days	Product
2014		Date	₹			2014		Date	₹		
June 30	To Balance b/d		520	185	96,200	Aug. 1	By Cash A/c	Aug. 1	500	152	76,000
July 17	To Sales A/c	July 17	40	167	6,680	Sep. 1	By Cash A/c	Sep. 1	400	121	48,400
Aug. 19	To Sales A/c	Aug. 19	720	134	96,480	Sep. 1	By Bills Receivable A/c (Note : 1)	Dec. 4	300	27	8,100
Aug. 30	To Sales A/c	Aug. 30	50	123	6,150	Oct. 22	By Purchases A/c	Oct. 22	20	70	1,400
Nov. 12	To Sales A/c	Nov. 12	14	49	686	Dec. 14	By Cash A/c	Dec. 14	50	17	850
						Dec. 31	By Balance of product				71,446
31 Dec.	To Interest A/c		9.79			Dec. 31	By Balance b/d		83.79		-----
	$\frac{71,446 \times 5\%}{365}$										
			1,353.79		2,06,196				1,353.79		2,06,196

Note: It is assumed that the bill was honoured on due date. The due date of the bill should be treated as date of payment and days to be calculated from the due date of account.

Workings:

Calculation of Days

Date of Transactions :	Due date	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Opening Balance		1	+31	+31	+30	+31	+30	+31	= 185
July 17	July 17	—	14	+31	+30	+31	+30	+31	= 167
Aug. 1	Aug. 1	—	—	30	+30	+31	+30	+31	= 152
Aug. 19	Aug. 19	—	—	12	+30	+31	+30	+31	= 134
Aug. 30	Aug. 30	—	—	1	+30	+31	+30	+31	= 123
Sep. 1	Sep. 1	—	—	—	29	+31	+30	+31	= 121
Sep. 1	Dec. 4	—	—	—	—	—	—	27	= 27

Oct. 22	Oct. 22	—	—	—	—	9	+30	+31	= 70
Nov. 12	Nov. 12	—	—	—	—	—	18	+31	= 49
Dec. 14	Dec. 14	—	—	—	—	—	—	17	= 17

Note: While counting the number of days, for opening balances, the opening date as well as date upto which the account is prepared, is counted.

Illustration 4

From the following prepare an account current, as sent by A to B on 30th June, 2014 by means of products method charging interest @ 6% p.a:

2014		₹
Jan. 1	Balance due from B	600
Jan. 11	Sold goods to B	520
Jan. 18	B returns Goods	125
Feb 11	B Paid by cheque	400
Feb 14	B accepted a bill drawn by A for one month	300
Apr. 29	Goods sold to B	615
May 15	Received cash from B	700

Solution

B in Account Current with A for the period ending on 30th June, 2014

Date	Particulars	Amount	Days	Products	Date	Particulars	Amount	Days	Products
2014		₹			2014		₹		
Jan. 1	To Balance b/d	600	182	1,09,200	Jan. 18	By Sales Returns	125	164	20,500
Jan. 11	To Sales A/c	520	171	88,920	Feb. 11	By Bank A/c	400	140	56,000
Apr. 29	To Sales A/c	615	62	38,130	Feb. 14	By B/R A/c (due date: March 17)	300	105	31,500
June 30	To Interest A/c	15.75			May 15	By Cash A/c	700	46	32,200
					June 30	By Balance of products			96,050
						By Balance c/d	225.75		
		1,750.75		2,36,250			1,750.75		2,36,250

Calculation of interest:

$$\text{Interest} = \frac{96,050}{366} \times \frac{6}{100} = ₹ 15.75$$

Red - Ink Interest: In case the due date of a bill falls after the date of closing the account, then no interest is allowed for that. However, interest from the date of closing to such due date is written in "Red-Ink" in the appropriate side of the 'Account current'. This interest is called

7.28 Accounting

Red-Ink interest. This Red Ink interest is treated as negative interest. In actual practice, however the product of such bill [value of bill X (due date-closing date) is written in ordinary ink in the opposite side on which the bill is entered].

Illustration 5

Following transaction took place between X and Y during the month of April, 2014.

April		₹
1	Amount payable by X to Y	10,000
7	Received acceptance of X to Y for 2 months	5,000
10	Bills receivable (accepted by Y) on 7.2.2014 is honoured on this due date	
10	X sold goods to Y (invoice dated 10.5.2014)	15,000
12	X received cheque form Y dated 15.5.2014	7,500
15	Y sold goods to X (invoice dated 15.5.2014)	6,000
20	X returned goods sold by Y on 15.4.2014	1,000
20	Bill accepted by Y is dishonoured on this due date	5,000

You are required to make out an account current by products method to be rendered by X to Y as on 30.4.2014, taking interest into account @ 10% p.a. (assume 1 year = 365 days)

Solution

'Y' In Account Current with 'X' (Interest to 30th April, 2014 @ 10% p.a.)

Dr.

Cr.

Date	Particulars	Due	Amount	Days	Product	Date	Particulars	Due	Amount	Days	Product
		Date	₹					Date	₹		
2014		2014				2014		2014			
April 7	To Bills Payable	June 10	5,000	-	-	April 1	By Balance b/d		10,000	30	3,00,000
April 10	To Sales A/c	May 10	15,000	-	-	April 12	By Bank A/c (Cheque received dated 15.5.2014)	May 15	7,500	-	-
April 20	To Purchase Returns	May 15	1,000	-	-	April 15	By Purchase A/c (invoice dated 15.5.2014)	May 15	6,000	-	-
April 20	To Bill Receivable A/c	April 20	5,000	10	50,000						
April 30	To Red Ink Product (₹ 7,500 x 15) as per contra	May 15		15	1,12,500	April 30	By Red Ink Product as per contra (5,000 x 41)	June 10		41	2,05,000

April 30	To Red Ink Product	May 15	15	90,000	April 30	By Red Ink Product	May 10	-	10	1,50,000
	(₹ 6,000 x 15)					as per contra				
	as per contra					(15,000 x 10)				
April 30	To Balance of				April 30	By Red Ink Product	May 15	-	-	15,000
	product			4,17,500		as per contra				
						(1,000 x 15)				
					April 30	By Interest A/c		114.38		
						$4,17,500 \times \frac{10}{100} \times \frac{1}{365}$				
					April 30	By Balance c/d		<u>2,385.62</u>		
		26,000		6,70,000				26,000		6,70,000

No entry is required for matured bill on 10th April since party is not contracted.

2.2.4 Preparation of Account Current by Means of Product of Balances

This method, also known as periodic balance method, is usually adopted in the case of banks where the balance of account is taken out after every transaction. In this case, the number of days written against each transaction are the days counted from its date or due date to the date of the following transaction. In the case of the last transaction, the number of days is counted to the close of the period.

Each amount is multiplied with the number of days. If the amount represents a debit balance, the product is entered in the Dr. Product column; and if it represents a credit balance, the product is written in the Cr. Product column. The Dr. Product and Cr. Product columns are then totalled up. Interest is calculated on each total at the given rate of interest; and the net interest is ascertained. If net interest is payable to the customer, it will appear as "By Interest A/c", and if it is due from the customer, it will appear as "To Interest A/c".

Illustration 6

On 2nd January, 2014 Vinod opened a current account with the Allahabad Bank Limited; and deposited a sum of ₹ 30,000.

He further deposited the following amounts:	₹
15th January	12,000
12th March	8,000
10th May	16,000
His withdrawals were as follows :	
15th February	26,000
10th April	30,000
15th June	14,000

7.30 Accounting

Show Vinod's a/c in the ledger of the Allahabad Bank. Interest is to be calculated at 5% on the debit balance and 2% on credit balance. The account to be prepared as on 30th June, 2014. Calculation may be made correct to the nearest rupee.

Solution

Vinod Current Account with Allahabad Bank Ltd.

Date	Particular	Dr.	Cr.	Dr. or Cr.	Balance	Days	Dr. Product	Cr. Product
2014								
Jan. 2	By Cash Account	—	30,000	Cr.	30,000	13	—	3,90,000
Jan. 15	By Cash Account	—	12,000	Cr.	42,000	31	—	13,02,000
Feb. 15	To Self	26,000	—	Cr.	16,000	25	—	4,00,000
Mar. 12	By Cash Account	—	8,000	Cr.	24,000	29	—	6,96,000
April 10	To Self	30,000	—	Dr.	6,000	30	1,80,000	—
May 10	By Cash Account	—	16,000	Cr.	10,000	36	—	3,60,000
June 15	To Self	14,000	—	Dr.	4,000	16	64,000	—
June 30	By Interest A/c	—	140	Dr.	3,860		—	—
June 30	By Balance c/d	—	3,860	—			—	—
		<u>70,000</u>	<u>70,000</u>				<u>2,44,000</u>	<u>31,48,000</u>
July 1	To Balance b/d	3,860						

* Interest is calculated as follows:

On ₹ 31,48,000 @ 2% for 1 day = ₹ 172.49

On ₹ 2,44,000 @ 5% for 1 day = ₹ 33.42

Net Interest = ₹ 139.07 (₹ 172.49- ₹ 33.42)

Summary

- When interest calculation becomes an integral part of the account. The account maintained is called "Account Current".
Some examples where it is maintained are:
 - Frequent transactions between two parties.
 - Goods sent on consignment
 - Frequent transactions between a banker and his customers
 - In case of Joint venture when no separate set of books is maintained for joint venture
- There are three ways of preparing an Account Current :
 - With the help of interest tables
 - By means of products
 - By means of products of balances